Bosch Dairy #1

13567 South Whispering Lakes Lane, Ontario, CA 91761

February 26, 2016

John Tinger US EPA (ENF3-1) 75 Hawthorne Street San Francisco, CA 94105

Re: Response to January 13, 2016 Correspondence

Dear Mr. Tinger,

On January 13, 2016, you sent a letter and report relating to a September 29, 2015 inspection you conducted on Bosch Dairy #1 (your letter referenced "Bosch Dairy #2, but after confirmation from Mr. Ed Kashak, it was clear that the dairy in question is Bosch Dairy #1). In that letter, you noted three "areas of concern" that you identified during the inspection. This letter is intended to respond to those three areas of concern.

First, your letter states that "the 2014 Manure Tracking Manifest and facility documentation did not appear to clearly document the destination of manure." Attached are the Annual Reports and Manure Manifests for both 2014 and 2015. These have been clarified to accurately reflect the manure management in 2014 and 2015. I believe that when taken together, these reports clearly tell the story of the dairy's manure management for those two years. Here is a summary of what those reports say:

- At the start of 2014, there were no stockpiles.
- During 2014, approximately 1,883 tons of manure were generated on the dairy. Of that total, 420 tons were hauled to Kellogg Fertilizer (a manure composting facility nearby), and 1,463 tons were stockpiled on the dairy.
- During 2015, approximately 1,812 tons of manure was generated on the dairy. All of that manure was exported. In addition, the 2014 stockpile of 1,463 tons of manure was also exported during 2015. Collectively, that manure was hauled to Kellogg Fertilizer (1,565 tons) and a nearby crop field where it was used as a fertilizer (1,710 tons).
- As of December 31, 2015, there was no stockpile of manure on the dairy.

Second, your letter states that "the 2014 annual report did not contain nutrient analysis and the nutrient analysis was not available onsite." I would note that dairies are not required to include their manure nutrient analysis in their annual report to the RWQCB, but rather to certify that a copy is available onsite. We did that. In addition, while I believe I provided a copy of my most recent (at that time) manure nutrient analysis to you upon request during the inspection, I've

included a copy of it with this response as well. The analysis was done in December 2014, and was available to those receiving the dairy's manure throughout 2015 as the representative analysis required under the dairy permit. Subsequent to your inspection, the dairy submitted another manure sample to be analyzed in January 2016, and that is the analysis that will be available throughout 2016 as the representative analysis required under the dairy permit.

Finally, your letter states that "the concrete spillway had an accumulation of unconsolidated soil on top of the spillway which may block the spillway or cause erosion in event of overflow event." I have cleaned the spillway of any soil on top of it and included a picture as an attachment to this response.

I appreciate the opportunity to respond and hope these responses are adequate to address your concerns. If you or the Santa Ana RWQCB have any questions, please don't hesitate to contact me anytime.

Sincerely,

Bud Bosch

Bosch Dairy #1

2014 Annual Report

and

Manure Tracking Forms

ANNUAL REPORT Regional Water Quality Control Board Santa Ana Region (Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: January 1, 2014 through December 31, 2014

Bernard Bosch

FACILITY INFORMATION (Please make any corrections directly on this form)

Report Due Date: January 15, 2015

CAFO Operator's Name

CAFO Facility Name Bosch Dairy
Facility Address 13567 Whispering Lakes Lane, Ontario
Mailing Address 13567 Whispering Lakes Lane, Ontario, CA, 91761
Telephone Number - 909-947-4494 951 - 236 - 1254
ANIMAL POPULATION (Please provide the number of animals in each category)
Milking Cows 500 Dry Cows 100 Heifers Calves 120 Others (specify type and number)
Colors (opening style and statement)
MANURE INFORMATION Units Used: Tons X Cubic Yards
Manure Produced 1883 Manure Spread on Cropland at Facility O
Manure Spread on Other Cropland
Manure Stockpiled on Site as of 12/31/14 1963
Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 42.0
Was Manure Amount Calculated Using the Following Factors? Yes No X
1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year
*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS
IMP is Certified Yes No No
las the most current nutrient analysis been provided to the recipient of the manure?
res X No
CROP GROWING ACTIVITY
Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).
Cropland acres: No. of plantings per year. One Two Three
Type of crops grown:
Sudan grass Alfalfa Winter wheat
Barley Bermuda grass corn Oats Turf Grass
Jamahahlan Othara
Vegetables Others
Actual crop yields
Manure application rates
Amount of manure spread on each field
Number of Milkings per day (Dairies only): One Two Three_X
COMMENTS:
•
CERTIFICATION:
CERTIFICATION: I certify under penalty of law that this document and all attachments were prepared under my direction accordance with a system designed to assure that qualified personnel properly gather and evaluate the info Based on my inquiry of the person or persons who manage the system, or those persons directly responsible information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete there are significant penalties for submitting false information, including the possibility of fine and imprisor violations.
I certify under penalty of law that this document and all attachments were prepared under my direction accordance with a system designed to assure that qualified personnel properly gather and evaluate the informassed on my inquiry of the person or persons who manage the system, or those persons directly responsible information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete there are significant penalties for submitting false information, including the possibility of fine and imprisor
I certify under penalty of law that this document and all attachments were prepared under my direction accordance with a system designed to assure that qualified personnel properly gather and evaluate the informassed on my inquiry of the person or persons who manage the system, or those persons directly responsible information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete there are significant penalties for submitting false information, including the possibility of fine and imprisor violations.
I certify under penalty of law that this document and all attachments were prepared under my direction accordance with a system designed to assure that qualified personnel properly gather and evaluate the information my inquiry of the person or persons who manage the system, or those persons directly responsible information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete there are significant penalties for submitting false information, including the possibility of fine and imprisor violations. Name of person making this report (please print): Signature: Signature:
I certify under penalty of law that this document and all attachments were prepared under my direction accordance with a system designed to assure that qualified personnel properly gather and evaluate the information my inquiry of the person or persons who manage the system, or those persons directly responsible information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete there are significant penalties for submitting false information, including the possibility of fine and imprisor violations. Name of person making this report (please print):

	nure Tracking Manifest Nater Quality Control Board
	Santa Ana Region 13-0001, NPDES No. CAG018001
	eary 1, 2014 through December 31, 2014
	on completion of each manure hauling event.
CAFO Operator's Name Bernard Bosch	
CAFO Facility Name Bosch Dairy	·
Facility Address 13567 Whispering Lakes Lan	e, Ontario
Mailing Address _ SMR-	
Telephone Number 951-236-125	4
MANURE INFORMATION	
Manure analyzed for nutrients	Yes No
Most current nutrient analysis of manure provided to the recipient	of the manure ¹ Yes No No
MANURE HAULER INFORMATION	Phone Number:
Name and Address of Hauling Company Bosch Dairies 13567 Whisperin	Laker Lana Osteria
Contact Person Name: Brad Bosch	(A 91761 909-223-3451
MANURE DESTINATION INFORMATION	Deba Uniladi
Hauled to (please check):	Dates Hauled: 1-1-2014 to 12-31-2014
Composting Facility	
Regional Treatment Facility	Destination of Haut: Kellogs
Croplands in Riverside County	Latitude: 34.003 474
Croplands in San Bernardino County	GPS Coordinates of Destination ² Longitude: -117.615863
Croplands in other Counties	Destination Receiver of Manure:
	422
Amount removed: Tons or Cubic Yards (Please enter the amount in the box below and circle the	Manure Quantity Delivered:
appropriate units)	Approximate Acreage (If Destination is Cropland)
11283 1420	
1-2-3	Crop(s) Grown on Cropland
CERTIFICATION:	
designed to assure that qualified personnel properly gather are	ments were prepared under my direction or supervision in accordance with a system of evaluate the information submitted. Based on my inquiry of the person or persons for gathering the information; the information submitted is, to the best of my knowledge are significant penalties for submitting false information, including the possibility of fine
$1 \mathcal{Q} \mathcal{Q} \mathcal{Q}$	1-2-2015
Operator's Signature: 10 mg/ 10 mg/	Date: 1-3-2015
Hauler's Signature:	Date: 1-3-2015
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The Regional Board may ask for a copy of manure nutrient analysis.

GPS coordinates shall be provided for all destinations within the Santa Ana Region.

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2015 Annual Report

and

Manure Tracking Forms

ANNUAL REPORT Regional Water Quality Control Board Santa Ana Region (Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: January 1, 2015 through December 31, 2015

Report Due Date: January 15, 2016

FACILITY INFORMATION (Please make any corrections directly on this form)
CAFO Operator's Name Bernard Bosch
CAFO Facility Name Bosch Dairy
Facility Address 13567 Whispering Lakes Lane, Ontario
Mailing Address 13567 Whispering Lakes Lane, Ontario, CA, 91761
Telephone Number 951-236- 1254
ANIMAL POPULATION (Please provide the number of animals in each category)
Milking Cows 500 Dry Cows 90 Heifers 30 Calves 180 Others (specify type and number)
MANURE INFORMATION Units Used : Tons X Cubic Yards
MANURE INFORMATION Units Used : Tons Cubic Yards
Manure Produced 812 Manure Spread on Cropland at Facility
Manure Spread on Other Cropland
Manure Stockpiled on Site as of 12/31/15
Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 3275 fons 1812 Produced + 1463 (2014 Stockpik)
Was Manure Amount Calculated Using the Following Factors? Yes No
1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year
*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

orm 3. (Page 2 of 2)
NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS
NMP is Certified Yes_NMA* No N/A
Has the most current nutrient analysis been provided to the recipient of the manure?
Yes No
CROP GROWING ACTIVITY
Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).
Cropland acres: No. of plantings per year. One Two Three
Type of crops grown:
Sudan grass Alfalfa Winter wheat
Barley Bermuda grass corn Oats Turf Grass
/egetables Others
Actual crop yields
Manure application rates
Amount of manure spread on each field
Number of Milkings per day (Dairies only): One Two Three
COMMENTS:
COMMEN 15:
CERTIFICATION:
certify under penalty of law that this document and all attachments were prepared under my direction or supervisi accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submassed on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering formation, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am awant to be significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge.
Name of person making this report (please print): Bud Bosch
Signature: Buy Beach
ate: 1-6-16
He: Partner

Form 4. Manure Tracking Manifest Regional Water Quality Control Board Santa Ana Region Order No. R8-2013-0001, NPDES No. CAG018001 Reporting Period: January 1, 2015 through December 31, 2015 INSTRUCTIONS: 1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being 2. If there are multiple destinations, complete a separate form for each destination. 3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board **OPERATOR'S INFORMATION** CAFO Operator's Name Bernard Bosch **Bosch Dairy** CAFO Facility Name 13567 Whispering Lakes Lane, Ontario Facility Address Mailing Address 951 236-1254 Telephone Number MANURE INFORMATION Manure analyzed for nutrients Most current nutrient analysis of manure provided to the recipient of the manure! MANURE HAULER INFORMATION Name and Address of Hauling Company 5 A-A Phone Number: Contact Person Name: 109 - 223 - 3451 MANURE DESTINATION INFORMATION Dates Hauled: Hauled to (please check): Composting Facility Regional Treatment Facility Destination of Haul: Croplands in Riverside County GPS Coordinates of Destination² Longitude: -117.615863 Croplands in San Bernardino County Croplands in other Counties **Destination Receiver of Manure:** Amount removed: Tons or Cubic Yards Manure Quantity Delivered: (Please enter the amount in the box below and circle the appropriate units) Approximate Acreage (If Destination is Cropland) 1565 Crop(s) Grown on Cropland **CERTIFICATION:** l certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Operator's Signature: Hauler's Signature:

The Regional Board may ask for a copy of manure nutrient analysis.

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GPS coordinates shall be provided for all destinations within the Santa Ana Region.

Form 4.	lanure Tracking Manifest
Kegiona	l Water Quality Control Board Santa Ana Region
	013-0001, NPDES No. CAG018001
INSTRUCTIONS:	nuary 1, 2013 through December 31, 2013
 Complete one manifest for each hauling event and for each dhauled to the same destination. 	destination. A hauling event may last for several days, as long as the manure is being
2. If there are multiple destinations, complete a separate form to	or each destination.
The CAFO operator must obtain the signature of the hauler u	pon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) OPERATOR'S INFORMATION	with the Annual Report to Regional Board.
CAFO Operator's Name Bosch Dairy #1	
CAFO Facility Name	
Facility Address 13567 Whispering Lakes Lane	Ontario (A. 91761
Mailing Address	·
Telephone Number 951 - 236 - 125	54
MANURE INFORMATION	
Manure analyzed for nutrients	Yes X No
Most current nutrient analysis of manure provided to the recipien	nt of the manure¹ Yes 🔀 No 📳
MANURE HAULER INFORMATION	
Name and Address of Hauting Company Three Brothers Farms 14100 S. Miliken Ave,	Ca 91761 Phone Number: (909) 917-7752
Contact Person Name: Guillermo Torres	
MANURE DESTINATION INFORMATION	
Hauled to (please check):	Dates Hauled: 08/25/15-08/29/15
Composting Facility	
Regional Treatment Facility	Destination of Haut: Archibald and Edison
Croplands in Riverside County	Latitude: 33.996508
Croplands in San Bernardino County	GPS Coordinates of Destination ² Longitude: 117. 594051
Croplands in other Counties	Destination Receiver of Manure:
	1.710 Toma
Amount removed: Tons or Cubic Yards (Please enter the amount in the box below and circle the	Manure Quantity Delivered: 1,710 Tons
appropriate units)	Approximate Acreage (If Destination is Cropland)
1,710	Crop(s) Grown on Cropland Corn ,Hay
CERTIFICATION:	
I certify under penalty of law that this document and all attached designed to assure that qualified personnel property gather are	ments were prepared under my direction or supervision in accordance with a system d evaluate the information submitted. Based on my inquiry of the person or persons
who manage the system, or those persons directly responsible to	or gathering the information, the information submitted is, to the best of my knowledge
and belier, true, accurate, and complete. I am aware that there a and imprisonment for knowing violations.	are significant penalties for submitting false information, including the possibility of fine
Operator's Signature: Sulf Bow	Date: 1-6-16
Hauler's Signature: Gaillermo Torres	Date: September 5th, 2015

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The Regional Board may ask for a copy of manure nutrient analysis.

GPS coordinates shall be provided for all destinations within the Santa Ana Region.

2015 Manure Nutrient Analysis





SATURATION EXTRACT - PLANT SUITABILITY SATURATION EXTRACT - PLANT SUITABILITY Sensity (ECC) Sensit		ring Lakes Land 1761	9	Project : Manure		Report No : Cust No : Date Printed : Date Received	13-354-00 068 12/30/20 12/20/20
SATURATION EXTRACT - PLANT SUITABLITY Sensity (sca) Solvy (sca) S	Sample ld:	Manure				Page : Lab Number :	1 0
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EXTRACTABLE NUTRIENTS Biblio-N 1714 ppm 7-3 Physical Low Medium Optimum Very High Particle States and Control of the Control			Village and the second and the	y auversely affected at SAR valu	es higher than 6.		·
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prestum (stg) 1844 ppm 1.1 prestum (stg) 1844 ppm 1.1 pper (Cxt) besium (IC) besium – sat. act.	833 ppm 22740 ppm 140.0 meg/L	5.9	and the state of t		Very High	11 ppm	
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PARTICLE SIZE ANALYSIS PARTICLE SIZE ANALYSIS	besium (K) besium - sat_ext_ Chim (Ca) clum - sat_ext_ gnesium (Mg)	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
Of (8) - sat. cat. In Aluminum I., Zn., Mn and Fe were analyzed by DTPA extract. PARTICLE SIZE ANALYSIS	bassium (K) Dassium - sat_ext_ Chim (Ca) Cium - sat_ext Dassium (Mg) posium - sat_ext.	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
Of (8) - sat. cat. In Aluminum I., Zn., Mn and Fe were analyzed by DTPA extract. PARTICLE SIZE ANALYSIS	bassium (K) IRESSIUM - SEL BOL CLUM (CH) CLUM - SEL BOL QUESSIUM (NIG) GRANIUM - SEL GOL UPPER (CH)	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
Alumbum 1. Zn, Mn and Fe were analyzed by DTPA extract. PARTICLE SIZE ANALYSIS PARTICLE SIZE ANALYSIS	taesium (K) taesium - sat. ext. lcium (Ca) cium - sat. ext. gnesium (Mg) gnesium - sat. cxt. sper (Cu) c (Zn)	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
Alumbum 1. Zn, Mn and Fe were analyzed by DTPA extract. PARTICLE SIZE ANALYSIS PARTICLE SIZE ANALYSIS	besium (K) bissium - sat. ext. lcium (Ca) cium - sat. ext. gnesium (Mg) gnesium - sat. cxt. pper (Cu) c (Zn) ngamene (Mn)	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
Alumbusn 1. Zn, Mn and Fe were enalyzed by DTPA extract. PARTICLE SIZE ANALYSIS	bassium (K) bassium - sat. ext. cium (Ca) cium - sat. ext. gresium (Mg) gresium - sat. ext. sper (Cu) c (Zn) ngarrane (Mn)	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
PARTICLE SIZE ANALYSIS	taesium (K) tassium - sat_ext_ lcium - sat_ext_ lcium - sat_ext gnesium (Mg) gnesium - sat_ext, pper (Cu) c (Zn) nganese (Mn) t (Fe) Off (B) - sat, ext.	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
PARTICLE SIZE ANALYSIS	taesium (K) tassium - sat_ext_ lcium - sat_ext_ lcium - sat_ext_ gnesium (Mg) gnesium - sat_ext_ pper (Cu) c (Zn) ngamasa (Mn) n (Fe) On (B) - sat_ext_ iste - sat_ext.	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
PARTICLE SIZE ANALYSIS	taesium (K) tassium - sat_ext_ lcium - sat_ext_ lcium - sat_ext_ gnesium (Mg) gnesium - sat_ext_ pper (Cu) c (Zn) ngamasa (Mn) n (Fe) On (B) - sat_ext_ iste - sat_ext.	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm	5.9 24.9 0.2	and the state of t			11 ppm
	tassium (K) tassium - sat. ext. tcium - sat. ext. tcium - sat. ext. gnesium (Mg) gnesium (Mg) granium - sat. ext. pper (Cu) c (Zn) nganama (Mn) n (Fe) On (B) - sat. ext. th Alumburn	833 ppm 22740 ppm 140.0 meg/L 2400 ppm 10.1 meg/L 1644 ppm 13.8 meg/L	5.9 24.9 0.2	and the state of t			11 ppm
	tassium (K) tassium - sat. ext. tchim (Ca) tchim (Mg) grasium (Mg) grasium - sat. ext. pper (Cu) c (Zn) nganase (Mn) n (Fe) to (B) - sat. ext. tate - sat. ext.	833 ppm 22740 ppm 140.0 meg/L 2400 ppm 10.1 meg/L 1644 ppm 13.8 meg/L	5.9 24.9 0.2				11 ppm
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	bassium (K) bassium - sat. ext. cium (Ca) cium - sat. ext. gresium (Mg) gresium (Mg) gresium - sat. ext. pper (Cu) c (2n) ngarrane (Mn) r (Fe) on (B) - sat. ext. th Aluminum 1, Zn, Mn and Fe wer.	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm 13,8 meg/L	5.9 24.9 0.2 1.1	PARTICLE SIZE ANALY	/SIS		11 ppm 1703 ppm 694 meq/kg
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	taccium (K) tassium - sat. ext. tcium - sat. ext. tcium - sat. ext. gnesium (Mg) gnasium - sat. ext. pper (Cu) c (2n) nganase (Mn) n (Fe) on (B) - sat. ext. tat. th Alumbum	833 ppm 22740 ppm 140,0 meg/L 2400 ppm 10,1 meg/L 1644 ppm 13,8 meg/L	5.9 24.9 0.2 1.1	PARTICLE SIZE ANALY	/SIS		11 ppm 1703 ppm 694 meq/kg
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	tassium (K) tassium - sat_ext_ takim (Ca) lcium - sat_ext_ gnesium (Mg) gnesium (Mg) gnesium - sat_ext_ pper (Cu) c (Zn) ngenaue (Mn) r (Fe) to (B) - sat_ext_ th Alumbum	833 ppm 22740 ppm 140.0 meg/L 2400 ppm 10.1 meg/L 1644 ppm 13.8 meg/L	5.9 24.9 0.2 1.1	PARTICLE SIZE ANAL	/SIS		11 ppm 1703 ppm 694 meq/kg
	bassium (K) Bassium - sat. ant. Cium - sat. ant. Cium - sat. ent. (Inesium (Mg) prantum - sat. cot. per (Cu) c (2n) ngamase (Mn) (Fe) On (B) - sat. ent. h Alumbum 1, Zn, Mn and Fe wer	833 ppm 22740 ppm 140.0 meg/L 2400 ppm 10.1 meg/L 1644 ppm 13.8 meg/L	5.9 24.9 0.2 1.1	PARTICLE SIZE ANAL	/SIS		11 ppm 1703 ppm 694 meq/kg

Picture of Spillway

